

STRUCTURED SPEECH RECOGNITION

ABSTRACT OF THE DISCLOSURE

Speech recognition methods, systems, and interfaces are used in the
5 generation of medical reports from data in a hierarchically-organized database for
the entry and searching of data in a database based on spoken utterances of a
user. A workflow function facilitates a series of contexts, typically based on
information in a knowledge base, that are used to establish procedural rules and
word-mapping databases for each context for word-matching data entry based on
10 spoken utterances of a user. The generation of medical reports from the entered
medical data provides for searching the database generated using the speech
recognition methods. The series of contexts and word-mapping databases are
developed using a hierarchically-organized database representation based on
knowledge regarding the relationship of data items in the main database.

15